FROM: PATENTLAWING

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AMENDMENTS TO THE CLAIMS

IN THE CLAIMS

1. (currently amended) A composition of hydrocarbon fuel, in the low vapor pressure range to very low vapor pressure range, and carbon dioxide (CO2) (CO2) wherein the concentration of (CO2) (CO2) within the fuel is sufficient in volume to achieve a substantial reduction in exhaust soot particulate when the fuel is consumed by engine combustion.

2. (Cancelled)

- 3. (currently amended) The composition of claim 1 and 2 wherein said CO2 CO2 is mixed under normal temperature and pressure within said fuel and the CO2 CO2 does not react chemically with the fuel.
- 4. (currently amended) The composition of claim 1 and 2 wherein the combination of said fuel and said -CO2 <u>CO2</u> is employed to improve fuel economy.
- 5. (currently amended) The composition of claim 4 wherein the combination of said fuel and said —CO2 CO2 is employed to provide a net reduction in CO2 CO2 production in engine exhaust.
- 6. (currently amended) The composition of claim 1-and 2 wherein the combination of said fuel and said CO2 CO2 is employed to provide a net fuel cost savings.
- 7. (currently amended) The composition of claim 1 and 2 wherein the combination

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of said fuel and said <u>CO2</u> <u>CO2</u> is employed to reduce fuel viscosity without entering into a chemical reaction.

- 8. (currently amended) A composition of: liquid hydrocarbon fuel, in the low vapor pressure to very low vapor pressure range, and carbon dioxide CO2 CO2 wherein the concentration of CO2 CO2 within the fuel is less than 1 atmosphere of pressure and sufficient in volume to provide a substantial supply of inert gas for use in fuel tank ullage inerting purposes and the CO2 CO2 does not react chemically with the fuel.
- 9. (currently amended) The composition of claim 8 wherein: hydrocarbon fuel is in the low vapor pressure to very low vapor pressure range, and uses a commercial grade of recycled carbon dioxide CO₂ CO₂ wherein the concentration of CO₂ CO₂ within the fuel is sufficient in volume to provide a substantial supply of inert gas for use in fuel tank ullage inerting purposes.
- 10. (currently amended) The composition of claim 8 wherein the combination of enhanced fuel by the added GO2 CO2 provides an improved fuel fire safety factor when said enhanced fuel is transferred and stored.
- 11. (currently amended) The composition of claim 8 within fuel tanks wherein the combination of said fuel and said CO2 CO₂ acts as a self-inerting fuel.
- 12. (currently amended) The composition of claim 8 wherein the combination of said fuel with said CO2 CO2 provides that said fuel acts as a 'weightless container' for transferring and storing substantial volumes of CO2 CO2 without additional containment vessels.
- 13. (currently amended) The composition of claim 8 wherein the combination of said fuel containing said CO₂ CO₂ wherein that concentration of CO₂ CO₂ in the fuel may be extracted from the fuel by mechanical means.

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14. (currently amended) The composition of claim 8 wherein the combination of said fuel and said CO2 CO2 is transferable and storable in, existing closed fuel distribution systems and fuel delivery equipment such as those used at airports and other re-fueling terminals.

15. (currently amended) The composition of claim 8 wherein the combination of said fuel and said CO₂ CO₂ provides a new means for safely extending Jet-A fuel supplies by mixing in percentages of JP-4 or naphtha into CO₂ CO₂ enriched Jet-A.

16. (currently amended) The composition of claim 8 wherein the combination of said fuel receiving said CO₂ CO₂ provides substantial fuel de-oxygenation during the CO₂ CO₂ mixing process.